DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D206-817 REV. D
& INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-817 REV. 2
REF. TCCA STC SH12-3
REF. FAA STC SR03091NY
REF. EASA STC 10039042

1.0 PURPOSE

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI) IS TO FACILIATE INSTALLATION OF THE RETAINERS ON THE LOWER PORTION OF THE WINDSHIELD, FOR D206-817-011 KITS AT CHG 005 OR LATER, BY REPLACING THE RIGID D4545-041/-042 RETAINER ASSEMBLIES WITH SEPARATE BRACKETS AND RETAINERS THAT ARE ASSEMBLED BY THE INSTALLER AND ALLOW FOR EASIER ADJUSTMENT.

2.0 PARTS LIST

(IS)

QTY -011	PART NUMBER	DESCRIPTION	
X D206-817-011		SCREW IN WINDSHIELD MODIFICATION KIT (MODIFIES BOTH LH & RH WINDSHIELDS)	
1	D4541-1	BRACKET	
1	D4541-2	BRACKET	
1	D4542-1	RETAINER	
1	D4542-2	RETAINER	
190	MS20426AD3-4	RIVET	
43	MS21059L08	NUTPLATE	
93	MS21059L3K	NUTPLATE	
2	MS21061L3K	NUTPLATE	
42	MS27039-0810	SCREW	
42	NAS1149DN832J	WASHER	

(ADDED)

(WAS)

	(11/10)			
QTY -011	PART NUMBER	DESCRIPTION		
х	D206-817-011	SCREW IN WINDSHIELD MODIFICATION KIT (MODIFIES BOTH LH & RH WINDSHIELDS)		
1	D4545-041	RETAINER, LH INNER (LOWER)		
1	D4545-042	RETAINER, RH INNER (LOWER)		
112	MS20426AD3-4	RIVET		
23	MS21059L08	NUTPLATE		
56	MS21059L3K	NUTPLATE		
22	MS27039-0810	SCREW		
22	NAS1149DN832J	WASHER		

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 14.03.18 CERT. NO.: SH12-3 ISSUE NO.: 1

Α	NEW IS	/ ISSUE			14.03.18
REV.		[DESCRIPTION		DATE
DESIGN		AJS	DART AEROSPACE LTD		LTD
DRAWN		AJS	HAWKESBURY, ONTARIO, CANADA		
CHECKED		身	DRAWING NO.		REV. A
MFG. APPR.		N/A	DSI 9687	5	SHEET 1 OF 4
APPROVED		149	TITLE	*	SCALE
DE APPR.		4	RETAINER UPGRADE		NTS
DATE 14.03.18		3.18	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		

3.0 INSTALLATION

IF INSTALLING A D206-817-011 KIT AT CHG 005 OR LATER, STEP 3.3 OF INSTALLATION INSTRUCTIONS IIN-D206-817 REV D IS MODIFIED IS FOLLOWS:

- 3.3 Install Dart inner retainers. It is acceptable to hand form retainers as required to allow fit. Retainers should be located so that they are approximately flush with the aircraft skin. Locate retainers and transfer drill Ø0.128" from aircraft frame. Locate as follows, using Figure 3-2 as reference:
 - a) Locate D4541-1/-2 Brackets along the bottom window frame flush against the door pillars. The Bracket should be oriented with the hole pattern for the MS21061L3K nutplate (the non-symmetric nutplate, ref) near the door post. See Figure 3-3 for reference.
 - b) Locate D4541-3/-4 Brackets on the door pillars, above the -1/2 Brackets. See Figure 3-3.
 - c) Locate D4541-5/-6 Brackets above the -3/-4 retainers. See Figure 3-4.
 - d) Locate D4541-7/-8 Brackets along the top edge, with one side aligned with the center column. See Figure 3-4.
 - e) Relocate the 206-031-112-039 (or equiv.) clip removed at step 3.2(g) per Figure 3-3.

Install brackets wet with Sikaflex-241/-291 or Proseal 890 or MIL-S-8802 sealant between retainers and a/c frame. Fasten D4541-1/-2 Lower Inner Brackets with CR3214-4 (or NAS9301B or M7885/2) rivets and NAS1149DN432J (or 140-001-1 or AN960JD4 or equiv.) washers. Fasten D4541-X Brackets with MS20600AD4 rivets. Reinstall clip (206-031-112-039 or equiv.) with CR3213-4 rivets. See Figure 3-3 for reference.

*Note: Due to variations in airframes the D4541-X Brackets have been designed with extra material for ease of Installation and to maintain a good edge distance. Excess material may be trimmed. Touch-up trimmed parts with alodine 1200/1201 per MIL-C-5541.

- 3.4 Locate D4542-X Retainers onto the D4541-X Brackets as follows, see Figures 3-3 & 3-4 for reference:
 - a) Locate D4542-1 Retainers onto the D4541-1/-2 Brackets
 - b) Locate D4542-3 Retainers onto the D4541-3/-4 Brackets
 - c) Locate D4542-5 Retainers onto the D4541-5/-6 Brackets
 - d) Locate D4542-7 Retainers onto the D4541-7/-8 Brackets

Hand form D4541-X Brackets and/or D45421-X as required to fit profile of windshield. Locate and transfer drill rivet holes to D4542-X Retainers and open to Ø0.098. Locate and transfer drill screw holes and open to Ø0.250". Dimple the Ø0.098 holes Ø0.180 x 100° and install MS21059L3K nutplates with MS20426AD3-4 rivets.

*Note: Due to variations in airframes the D4542-5 Retainer has been designed with extra material for ease of Installation and to maintain a good edge distance. Excess material may be trimmed. Touch-up trimmed parts with alodine 1200/1201 per MIL-C-5541.

FIGURES 3-2 & 3-3 OF INSTALLATION INSTRUCTIONS IIN-D206-817 REV. D ARE MODIFIED AS SHOWN ON SHEETS 3 AND 4 OF THIS SERVICE INSTRUCTION.

4.0 WEIGHT AND BALANCE

THIS CHANGE HAS NO EFFECT ON THE WEIGHT AND BALANCE.

DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	上	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9687	SHEET 2 OF 4
APPROVED	NA	TITLE	SCALE
DE APPR.	-#-	RETAINER KIT	NTS
DATE 14.03.18		COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT	

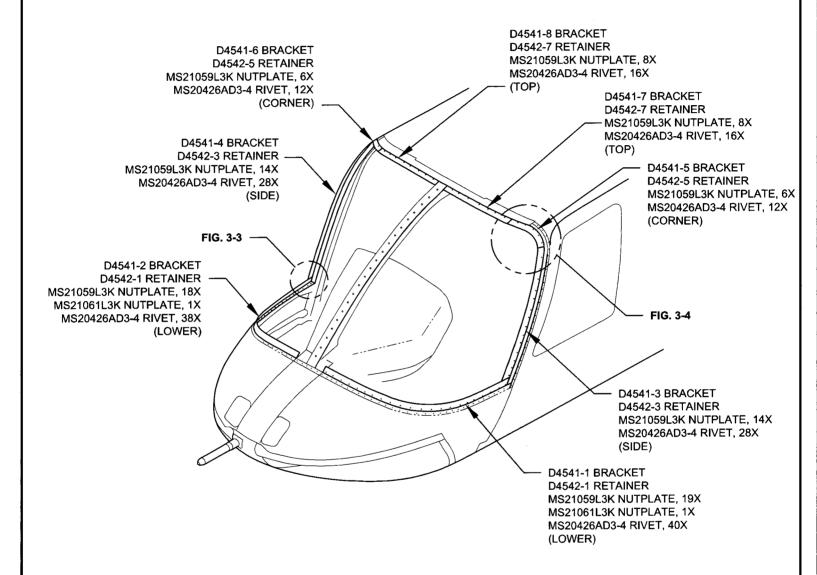


FIGURE 3-2

(REF IIN-D206-817 REV D)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

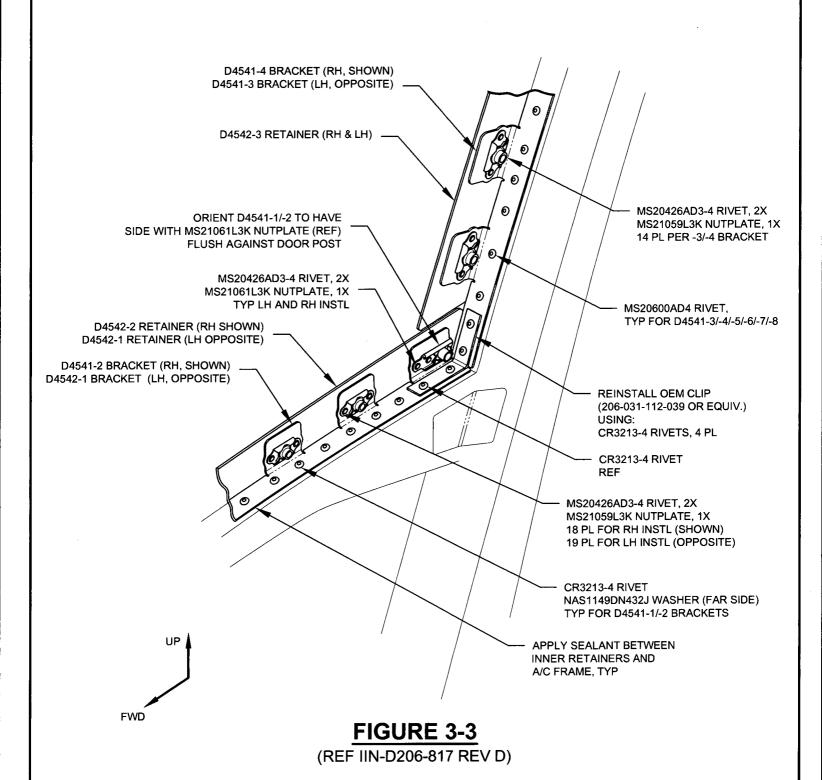
D. SHEPHERD (DE # 02)

DATE: 14.03.18

CERT. NO.: SH12-3

ISSUE NO.: 1

DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	串	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9687	SHEET 3 OF 4
APPROVED	149	TITLE	SCALE
DE APPR.	4	RETAINER KIT	NTS,
DATE 14.03.18		COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 14.03.18
CERT. NO.: SH12-3
ISSUE NO.: 1

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJ\$		
CHECKED	_\$	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9687	SHEET 4 OF 4
APPROVED	149	TITLE	SCALE
DE APPR.		RETAINER KIT	NTS
DATE 14.03.18		COPYRIGHT @ 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	